

## EAST Search History

| Ref # | Hits | Search Query   | DBs   | Default Operator | Plurals | Time Stamp          |
|-------|------|--|---|------------------|---------|---------------------|
| L1    | 1    | (parent or child)and model\$1 and pattern adj identificat\$3 and feature adj extraction and(face or facial or eyes or mouth or lips)and(higher or lower)adj layers   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/05/01<br>16:20 |
| L2    | 0    | L1 and @ad<"20021216"  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/05/01<br>16:21 |
| L3    | 1    | (parent or child)and model\$1 and pattern adj identificat\$3 and feature adj extraction same(face or facial or eyes or mouth or lips)and(higher or lower)adj layers  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/05/01<br>16:25 |
| L4    | 0    | (parent or child)and model\$1 and pattern adj identificat\$3 and feature adj extraction same(face or facial or eyes or mouth or lips)same(higher or lower)adj layers | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/05/01<br>16:25 |
| L5    | 0    | L3 and feature adj extraction and second adj layer and creat\$3 and(model or reference adj image\$1 or template)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/05/01<br>16:29 |
| L6    | 0    | L3 and(detect\$3 or determining)and(model or reference adj image\$1 or template)and feature adj extraction and second adj layer and first adj layer                  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/05/01<br>16:32 |
| L7    | 0    | L3 and(detect\$3 or determining)and(model or reference adj image\$1 or template)and feature adj extraction and second adj layer                                      | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/05/01<br>16:32 |
| L8    | 286  | (detect\$3 or determining)and(model or reference adj image\$1 or template)and feature adj extraction and second adj layer  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/05/01<br>16:34 |

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| L9  | 0   | (detect\$3 or determining)same(model or reference adj image\$1 or template)same feature adj extraction same second adj layer   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/01<br>16:34 |
| L10 | 0   | (parent adj level or child adj level)and model\$1 and pattern adj identificat\$3 and feature adj extraction and(face or facial or eyes or mouth or lips)and(higher or lower)adj layers | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/01<br>16:35 |
| L11 | 831 | (parent adj level or child adj level)and model\$1  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/01<br>16:35 |
| L12 | 0   | L11 and pattern adj identificat\$3 and feature adj extraction and(face or facial or eyes or mouth or lips)and(higher or lower)adj layers   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/01<br>16:36 |
| L13 | 0   | L11 and pattern adj identificat\$3 and feature adj extraction and(face or facial or eyes or mouth or lips)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/01<br>16:36 |
| L14 | 1   | L11 and pattern adj identificat\$3   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/01<br>16:36 |
| L15 | 0   | L11 and pattern adj identificat\$3 and feature adj extract\$3  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/01<br>16:37 |
| L16 | 0   | L14 and @ad<"20021216"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/01<br>16:39 |

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| L17 | 101 | ((("5710833") or ("5748776") or ("6054997") or ("4410077") or ("4782690") or ("4975960") or ("5214721") or ("5247590") or ("5394097") or ("5534973") or ("5654643") or ("5812193") or ("5859921") or ("4254956") or ("4280075") or ("4297576") or ("4345155") or ("4377810") or ("4480474") or ("4491019") or ("4491728") or ("4502704") or ("4504208") or ("4508453") or ("4516266") or ("4574199") or ("4603228") or ("4774464") or ("4786870") or ("4800927") or ("4811814") or ("4816811") or ("4818861") or ("4821638") or ("4862365") or ("4897845") or ("4932256") or ("4934292") or ("4961690") or ("4971947") or ("4997770") or ("5003249") or ("5012522") or ("5016282") or ("5199545") or ("5259382") or ("5263918") or ("5325178") or ("5355163") or ("5362971") or ("").pn.)).PN. | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/05/01<br>16:44 |
| L18 | 0   | L17 and pattern adj identificat\$3 and feature adj extraction and(face or facial or eyes or mouth or lips) and(higher or lower)adj layers  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/05/01<br>16:45 |
| L19 | 0   | L17 and pattern adj identificat\$3 and feature adj extraction and(face or facial or eyes or mouth or lips)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/05/01<br>16:45 |
| L20 | 0   | L17 and pattern adj identificat\$3   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/05/01<br>16:45 |
| L21 | 101 | L17 and @ad<"20021216"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/05/01<br>16:45 |
| L22 | 13  | L21 and(detect\$3 or determining)same(model or reference adj image\$1 or template)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/05/01<br>16:49 |
| L23 | 0   | L22 and(hierarchical or pyramid or parent or child)and model\$1 and pattern adj identificat\$3 and(face or facial or eyes or mouth or lips)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/05/01<br>16:50 |
| L24 | 0   | L22 and(hierarchical or pyramid or parent or child)and model\$1 and pattern adj identificat\$3   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/05/01<br>16:50 |

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| L25 | 1    | L22 and(hierarchical or pyramid or parent or child)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/01<br>16:50 |
| L26 | 1    | L25 and @ad<"20021216"  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/01<br>16:50 |
| L27 | 6114 | 382/118,243,285,233,173,228,195,218,190,191,192,224,111,279,156,157.OCLS.   | USPAT   | OR | ON | 2009/05/01<br>16:53 |
| L28 | 7    | L27 and pattern adj identificat\$3 and feature adj extraction and(face or facial or eyes or mouth or lips)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/01<br>16:54 |
| L29 | 0    | L27 and(parent adj level or child adj level)and model\$1 and pattern adj identificat\$3 and feature adj extraction and(face or facial or eyes or mouth or lips)and(higher or lower)adj layers                           | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/01<br>16:55 |
| L30 | 0    | L27 and(parent adj level or child adj level)and model\$1 and pattern adj identificat\$3 and feature adj extraction and(face or facial or eyes or mouth or lips)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/01<br>16:55 |
| L31 | 1    | L27 and(parent adj level or child adj level or hierarchical or pyramid)and model\$1 and pattern adj identificat\$3 and feature adj extraction and(face or facial or eyes or mouth or lips)                              | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/01<br>16:56 |
| L32 | 1    | L31 and(detect\$3 or determining)same(model or reference adj image\$1 or template)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/01<br>16:57 |
| L33 | 0    | L32 and(parent or child)and model\$1 and pattern adj identificat\$3 and feature adj extraction and(face or facial or eyes or mouth or lips)and(higher or second or lower or first)adj layers                            | USPAT   | OR | ON | 2009/05/01<br>16:59 |
| L34 | 0    | L27 and(hierarchical or pyramid or parent or child)and model\$1 and pattern adj identificat\$3 and feature adj extraction and(face or facial or eyes or mouth or lips)and(higher or second or lower or first)adj layers | USPAT   | OR | ON | 2009/05/01<br>17:01 |

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| L35 | 5    | (hierarchical or pyramid or parent or child)and model\$1 and pattern adj identificat\$3 and feature adj extraction and(face or facial or eyes or mouth or lips)and(higher or second or lower or first)adj layers         | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/01<br>17:01 |
| L36 | 0    | L35 and @ad<"20021216"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/01<br>17:01 |
| L37 | 2    | L35 and(detect\$3 or determining)same(model or reference adj image\$1 or template)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/01<br>17:05 |
| L38 | 0    | L27 and(hierarchical or pyramid or parent or child)and model\$1 and pattern adj identificat\$3 and feature adj extraction and(face or facial or eyes or mouth or lips)and(higher or second or lower or first)adj layers  | USPAT   | OR | ON | 2009/05/01<br>17:08 |
| L39 | 608  | 324/687,663,687.ccls.  | USPAT   | OR | ON | 2009/05/01<br>17:10 |
| L40 | 0    | L39 and pattern adj identificat\$3 and feature adj extraction and(face or facial or eyes or mouth or lips)   | USPAT   | OR | ON | 2009/05/01<br>17:10 |
| L41 | 0    | L39 and(parent adj level or child adj level or hierarchical or pyramid)and model\$1 and pattern adj identificat\$3 and feature adj extraction and(face or facial or eyes or mouth or lips)                               | USPAT   | OR | ON | 2009/05/01<br>17:11 |
| L42 | 0    | L39 and (hierarchical or pyramid or parent or child)and model\$1 and pattern adj identificat\$3 and feature adj extraction and(face or facial or eyes or mouth or lips)and(higher or second or lower or first)adj layers | USPAT   | OR | ON | 2009/05/01<br>17:11 |
| L45 | 1267 | 375/E7.026,E7.084,E7.209,E7.255,E7.261,E5.042,240.19.CCLS.   | USPAT   | OR | ON | 2009/05/01<br>17:13 |
| L46 | 0    | L45 and pattern adj identificat\$3 and feature adj extraction and(face or facial or eyes or mouth or lips)   | USPAT   | OR | ON | 2009/05/01<br>17:13 |
| L47 | 0    | L45 and(parent adj level or child adj level or hierarchical or pyramid)and model\$1 and pattern adj identificat\$3 and feature adj extraction and(face or facial or eyes or mouth or lips)                               | USPAT   | OR | ON | 2009/05/01<br>17:14 |
| L48 | 0    | L45 and(hierarchical or pyramid or parent or child)and model\$1 and pattern adj identificat\$3 and feature adj extraction and(face or facial or eyes or mouth or lips)and(higher or second or lower or first)adj layers  | USPAT   | OR | ON | 2009/05/01<br>17:14 |
| L49 | 1037 | 706/15,25.ccls.  | USPAT   | OR | ON | 2009/05/01<br>17:15 |
| L50 | 2    | L49 and pattern adj identificat\$3 and feature adj extraction and(face or facial or eyes or mouth or lips)   | USPAT   | OR | ON | 2009/05/01<br>17:15 |
| L51 | 1    | L50 and(parent adj level or child adj level or hierarchical or pyramid)and model\$1 and pattern adj identificat\$3 and feature adj extraction and(face or facial or eyes or mouth or lips)                               | USPAT   | OR | ON | 2009/05/01<br>17:15 |

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| L52 | 0    | L51 and(hierarchical or pyramid or parent or child)and model\$1 and pattern adj identificat\$3 and feature adj extraction and(face or facial or eyes or mouth or lips)and(higher or second or lower or first) adj layers                               | USPAT   | OR | ON | 2009/05/01<br>17:16 |
| L53 | 1    | L51 and @ad<"20021216"   | USPAT   | OR | ON | 2009/05/01<br>17:16 |
| L54 | 569  | 250/385.1.ccls.  | USPAT   | OR | ON | 2009/05/01<br>17:17 |
| L55 | 0    | L54 and pattern adj identificat\$3 and feature adj extraction and(face or facial or eyes or mouth or lips)   | USPAT   | OR | ON | 2009/05/01<br>17:17 |
| L56 | 0    | L54 and(hierarchical or pyramid or parent or child)and model\$1 and pattern adj identificat\$3 and feature adj extraction and(face or facial or eyes or mouth or lips)and(higher or second or lower or first) adj layers                               | USPAT   | OR | ON | 2009/05/01<br>17:17 |
| L57 | 424  | 348/88,91,92,128.ccls.   | USPAT   | OR | ON | 2009/05/01<br>17:17 |
| L58 | 1    | L57 and pattern adj identificat\$3 and feature adj extraction and(face or facial or eyes or mouth or lips)   | USPAT   | OR | ON | 2009/05/01<br>17:17 |
| L59 | 0    | L58 and(hierarchical or pyramid or parent or child)and model\$1 and pattern adj identificat\$3 and feature adj extraction and(face or facial or eyes or mouth or lips)and(higher or second or lower or first) adj layers                               | USPAT   | OR | ON | 2009/05/01<br>17:18 |
| L60 | 0    | L58 and(hierarchical or pyramid or parent or child)and model\$1 and pattern adj identificat\$3 and feature adj extraction and(face or facial or eyes or mouth or lips)and(higher or second or lower or first) adj layers                               | USPAT   | OR | ON | 2009/05/01<br>17:18 |
| L61 | 5    | (hierarchical or pyramid or parent or child)and(detect\$3 or determining)and(model or reference adj image\$1 or template)and pattern adj identificat\$3 and feature adj extraction and(higher or second adj layer or lower or first adj layer).CLM.    | US-PGPUB  | OR | ON | 2009/05/01<br>17:21 |
| L62 | 5    | (hierarchical or pyramid or parent or child)and(detect\$3 or determining)and(model\$1 or reference adj image\$1 or template)and pattern adj identificat\$3 and feature adj extraction and(higher or second adj layer or lower or first adj layer).CLM. | US-PGPUB  | OR | ON | 2009/05/01<br>17:22 |
| L64 | 0    | L62 and (@ad<"20021216" or @rlad<"20021216" or @prad<"20021216" or @ptad<"20021216")   | US-PGPUB  | OR | ON | 2009/05/01<br>17:23 |
| S1  | 2880 | pattern adj identificat\$3   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/02<br>12:41 |
| S2  | 4    | S1 and hierarchically adj extract\$3   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/02<br>12:41 |
| S3  | 0    | (pattern and identification and hierarchically adj extraction and feature adj extraction and first adj layer and second adj layer and higher and lower).CLM.   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/02<br>12:54 |

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|-----|---|---|---|----|----|---------------------|
| S4  | 2 | (pattern and identification and hierarchically and feature adj extraction and first adj layer and second adj layer and higher and lower).CLM. | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/02<br>12:54 |
| S5  | 2 | (pattern and identification and hierarchically and feature adj extraction and first adj layer and second adj layer and higher and lower).CLM. | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/02<br>14:30 |
| S6  | 0 | S5 and (@ad<"20021216" or @rlad<"20021216" or @prad<"20021216" or @ptad<"20021216")   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/02<br>14:35 |
| S7  | 0 | S5 and likelihood   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/02<br>14:42 |
| S8  | 2 | S5 and likelihood   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/02<br>14:42 |
| S9  | 2 | S8 and predetermined  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/02<br>14:43 |
| S10 | 1 | S9 and conversions  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/02<br>14:43 |
| S11 | 2 | S9 and re adj extract\$3  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/02<br>14:44 |
| S12 | 2 | S11 and lower adj layer   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/02<br>14:44 |

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| S13 | 1   | S12 and upper adj layer   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/02<br>14:44 |
| S14 | 2   | S12 and specific adj range  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/02<br>14:45 |
| S15 | 0   | S14 and first adj extraction  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/02<br>14:54 |
| S16 | 0   | S14 and first adj extract\$3  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/02<br>14:54 |
| S17 | 2   | S14 and first and second and extract\$3   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/02<br>14:54 |
| S18 | 92  | ((KATSUHIKO) near2 (MORI)).INV.   | US-PGPUB;<br>USPAT                                      | OR | ON | 2008/11/02<br>14:58 |
| S19 | 106 | ((MASAKAZU) near2 (MATSUGU)).INV.   | US-PGPUB;<br>USPAT                                      | OR | ON | 2008/11/02<br>14:58 |
| S20 | 13  | ((MIE) near2 (ISHII)).INV.  | US-PGPUB;<br>USPAT                                      | OR | ON | 2008/11/02<br>14:59 |
| S21 | 23  | ((YUSUKE) near2 (MITARAI)).INV.   | US-PGPUB;<br>USPAT                                      | OR | ON | 2008/11/02<br>14:59 |
| S22 | 2   | S18 and pattern and identification and hierarchically and feature adj extraction and first adj layer and second adj layer | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/02<br>15:00 |
| S23 | 2   | S19 and pattern and identification and hierarchically and feature adj extraction and first adj layer and second adj layer | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/02<br>15:00 |



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|-----|-----|---|---|----|----|---------------------|
| S24 | 1   | S20 and pattern and identification and hierarchically and feature adj extraction and first adj layer and second adj layer | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/02<br>15:01 |
| S25 | 0   | S21 and pattern and identification and hierarchically and feature adj extraction and first adj layer and second adj layer | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/02<br>15:01 |
| S26 | 190 | pattern and identification and hierarchically and feature adj extraction  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/02<br>15:05 |
| S27 | 6   | S26 and first adj extract\$3  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/02<br>15:05 |
| S28 | 0   | S27 and second adj extract\$3   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/02<br>15:06 |
| S29 | 6   | S27 and determination   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/02<br>15:06 |
| S30 | 0   | S27 and determination adj step  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/02<br>15:07 |
| S31 | 0   | S29 and determination adj step  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/02<br>15:07 |
| S32 | 5   | S27 and second and feature adj extract\$3   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/11/02<br>15:08 |

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|-----|-----|--|---|----|-----|---------------------|
| S33 | 0   | S32 and determination adj step   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/11/02<br>15:08 |
| S34 | 2   | S32 and (@ad<"20021216" or @rlad<"20021216" or @prad<"20021216" or @ptad<"20021216")                             | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/11/02<br>15:08 |
| S35 | 127 | S26 and (face or facial or eyes or mouth or lips)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/11/02<br>15:10 |
| S36 | 4   | S35 and first adj extract\$3   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/11/02<br>15:11 |
| S37 | 3   | S36 and second and feature adj extract\$3  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/11/02<br>15:11 |
| S38 | 0   | S37 and (@ad<"20021216" or @rlad<"20021216" or @prad<"20021216" or @ptad<"20021216")                             | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/11/02<br>15:11 |
| S39 | 12  | ((("7039233") or ("7054850") or ("20060074653") or ("20060115157") or ("2002018775") or ("20060228005").pn)).PN. | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/11/02<br>15:19 |
| S40 | 8   | S39 and (@ad<"20021216" or @rlad<"20021216" or @prad<"20021216" or @ptad<"20021216")                             | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/11/02<br>15:19 |
| S41 | 8   | S39 and @ad<"20021216"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/11/02<br>15:20 |

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|-----|-----|---|---|----|-----|---------------------|
| S42 | 12  | ((("7039233") or ("7054850") or ("20060074653") or ("20060115157") or ("2002018775") or ("20060228005).pn")).PN.          | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/04/17<br>15:31 |
| S43 | 8   | S42 and @ad<"20021216"  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/04/17<br>15:31 |
| S44 | 205 | pattern and identification and hierarchically and feature adj extraction  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/04/17<br>15:32 |
| S45 | 22  | S44 and pattern and identification and hierarchically and feature adj extraction and first adj layer and second adj layer | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/04/17<br>15:37 |
| S46 | 5   | S45 and (@ad<"20021216" or @lad<"20021216" or @prad<"20021216" or @ptad<"20021216")                                       | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/04/17<br>15:38 |
| S47 | 0   | S46 and feature adj extraction and second adj layer same (model or reference adj image\$1 or template)                    | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/04/17<br>15:39 |
| S48 | 0   | S46 and feature adj extraction and second adj layer and creat\$3 adj(model or reference adj image\$1 or template)         | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/04/17<br>15:39 |
| S49 | 0   | S46 and feature adj extraction and second adj layer and creat\$3 near3(model or reference adj image\$1 or template)       | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/04/17<br>15:40 |
| S50 | 1   | S46 and feature adj extraction and second adj layer and creat\$3 and(model or reference adj image\$1 or template)         | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/04/17<br>15:40 |

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|-----|----|--|---|----|----|---------------------|
| S51 | 1  | S50 and @ad<"20021216"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/17<br>15:40 |
| S52 | 4  | "L35" and feature adj extraction and second adj layer and higher and(model or reference adj image\$1 or template)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/17<br>15:44 |
| S53 | 19 | S45 and feature adj extraction and second adj layer and higher and(model or reference adj image\$1 or template)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/17<br>15:44 |
| S54 | 2  | S53 and @ad<"20021216"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/17<br>15:44 |
| S55 | 2  | S45 and feature adj extraction and lower adj feature and (detect\$3 or determining)and(second adj layer or higher)and(model or reference adj image\$1 or template) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/17<br>15:49 |
| S56 | 0  | S55 and @ad<"20021216"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/17<br>15:50 |
| S57 | 2  | "7327891".pn.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/17<br>15:56 |
| S58 | 0  | S45 and creat\$3 adj model and features adj extracted same lower adj feature   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/17<br>16:05 |
| S59 | 0  | S45 and creat\$3 and model and features adj extracted same lower adj feature   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/17<br>16:06 |

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| S60 | 0     | S44 and creat\$3 and model and features adj extracted same lower adj feature  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/17<br>16:06 |
| S61 | 0     | creat\$3 and model and features adj extracted same lower adj feature  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/17<br>16:06 |
| S62 | 2     | S44 and creat\$3 and model and feature adj extracted and lower adj feature  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/17<br>16:06 |
| S63 | 2     | S62 and @ad<"20021216"  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/17<br>16:07 |
| S64 | 0     | S62 and(detect\$3 or determining)and higher adj feature   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/17<br>16:08 |
| S65 | 2     | S44 and creat\$3 and model and feature adj extracted and lower adj feature and(detect\$3 or determining)and(higher adj feature or second) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/17<br>16:53 |
| S66 | 2     | S65 and @ad<"20021216"  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/17<br>16:53 |
| S67 | 0     | S55 and @ad<"20021216"  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/17<br>17:19 |
| S68 | 26226 | (hierarchical or pyramid or parent or child)same model\$1   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/01<br>14:56 |

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| S69 | 3     | (hierarchical or pyramid or parent or child)same model\$1 same pattern adj identificat\$3   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/01<br>14:57 |
| S70 | 3     | S69 and(@ad<"20021216" or @riad<"20021216" or @prad<"20021216" or @ptad<"20021216")   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/01<br>14:57 |
| S71 | 0     | (hierarchical or pyramid or parent or child)same model\$1 same pattern adj identificat\$3 same(face or facial or eyes or mouth or lips) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/01<br>14:59 |
| S72 | 139   | (hierarchical or pyramid or parent or child)and model\$1 and pattern adj identificat\$3 and(face or facial or eyes or mouth or lips)    | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/01<br>14:59 |
| S73 | 14    | (hierarchical or pyramid or parent or child)and model\$1 and pattern adj identificat\$3 same(face or facial or eyes or mouth or lips)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/01<br>14:59 |
| S74 | 4     | S73 and(@ad<"20021216" or @riad<"20021216" or @prad<"20021216" or @ptad<"20021216")   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/01<br>15:00 |
| S75 | 4     | S73 and @ad<"20021216"  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/01<br>15:00 |
| S76 | 15408 | (parent or child)same model\$1  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/01<br>15:01 |
| S77 | 0     | (parent or child)same model\$1 same pattern adj identificat\$3 same(face or facial or eyes or mouth or lips)                            | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/01<br>15:01 |

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|-----|---|--|---|----|----|---------------------|
| S78 | 5 | (parent or child)and model\$1 and pattern adj identificat\$3 and feature adj extraction and(face or facial or eyes or mouth or lips) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/01<br>15:02 |
| S79 | 2 | S78 and @ad<"20021216"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/01<br>15:02 |
| S80 | 2 | S79 and feature adj extraction and(second adj layer or second)same(model\$1 or reference adj image \$1 or template)                  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/01<br>15:06 |
| S81 | 0 | S79 and feature adj extraction same(second adj layer or second)same(model\$1 or reference adj image \$1 or template)                 | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/01<br>15:07 |

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